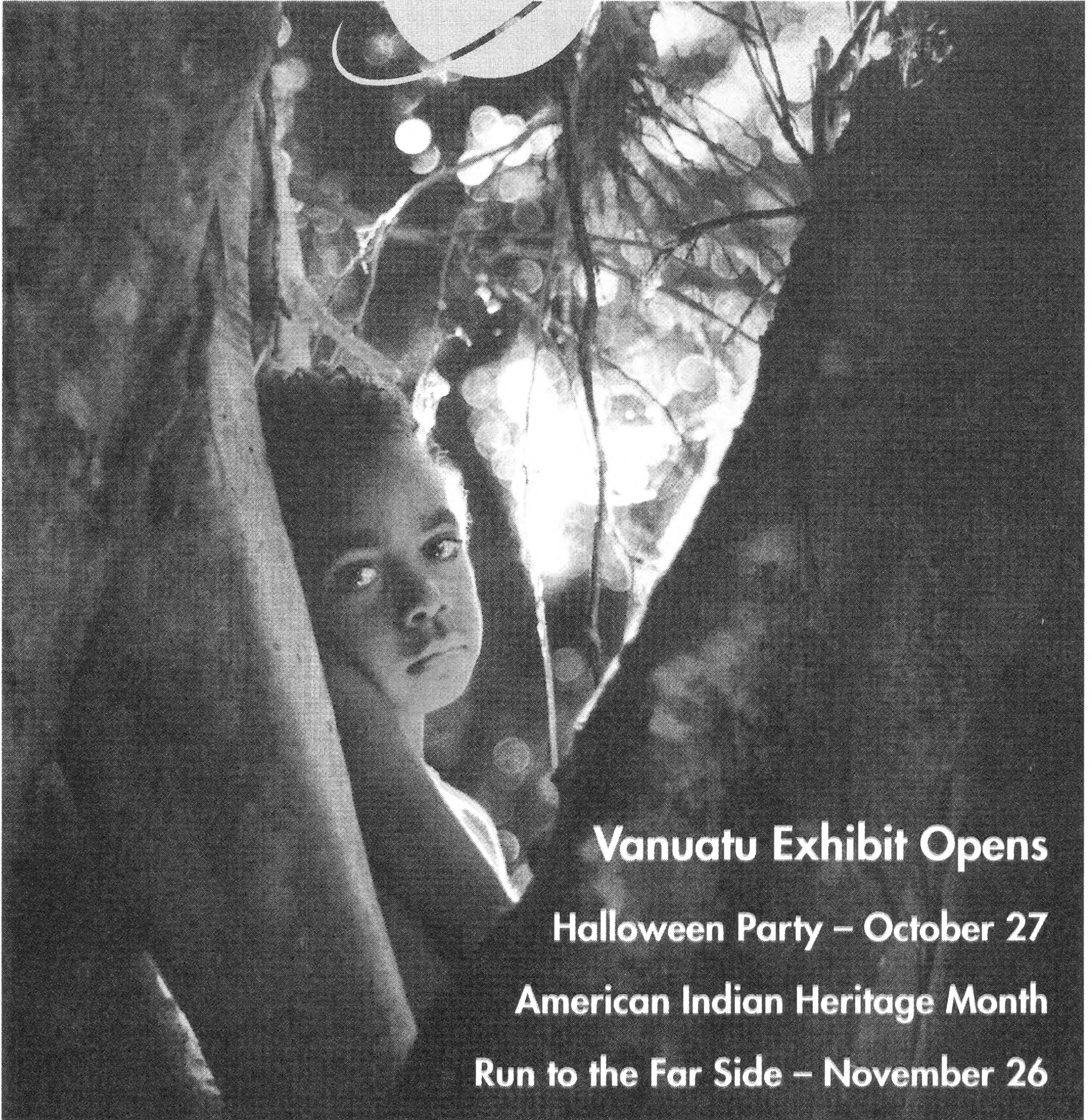


# Academy

California Academy of Sciences' Member Newsletter

October/November 2000



**Vanuatu Exhibit Opens**

**Halloween Party – October 27**

**American Indian Heritage Month**

**Run to the Far Side – November 26**

To explore and explain the natural world



## Message to the Members

Madagascar was the first, and the China Natural History Project is the second international, multi-disciplinary, multi-institutional research program that the Academy has committed to in recent years. Last July, a team of Academy scientists—ichthyologists, botanists, entomologists, a herpetologist and a mammalogist—journeyed to

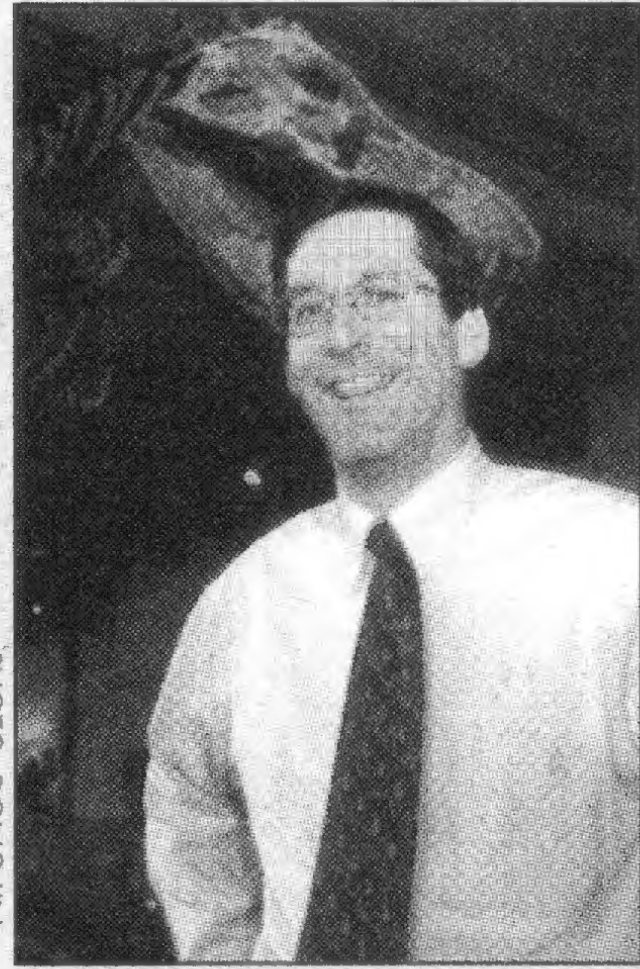


PHOTO: DONG LIN

Dr. Patrick Kociolek

the Gaoligong Shan, a mountain range in western Yunnan, to inventory the biodiversity of this relatively unspoiled region of China. They were accompanied by a group of Chinese scientists, primarily from the Kunming Institutes of Botany and Zoology.

This was the monsoon season and it was hot, wet, and humid, but the different cultural climate required more adaptation than the

weather. Nevertheless, the rewards, both scientific and personal, were worth the effort as you can read about elsewhere in this issue, on our website, and in an upcoming issue of *California Wild*. We expect this association to continue for many years to come.

This fall sees a flurry of new exhibits opening in the Museum. In Earth & Space Hall there will be an exhibit about the discovery of extra solar planets and in Linking Hall, a display of striking images of the people of Vanuatu photographed by David Becker. His work portrays a traditional Melanesia society, still intact. We are also celebrating American Indian Heritage Month in November with a series of talks, displays, and demonstrations that highlight this culture. And new items will be displayed in our exhibit *The Elkus Collection*.

Come Election Day in November, San Francisco voters will see a proposition on the ballot which proposes closing much of the east end of Golden Gate Park to traffic on Saturdays. The Academy supports Saturday closure, but we also want open access to the Park for everybody who enjoys the Park, including seniors, families with young children, and the disabled. We want the Saturday closure of this part of the Park to be done reasonably and responsibly. That means first improving transit into the Park, studying the impacts of Saturday closures on institutions in the Park and surrounding neighborhoods, and waiting until the underground parking facility has opened to the public, reducing traffic in the Park and neighborhoods. For these reasons, the Academy is supporting Proposition G. I hope those of you who live in San Francisco will also vote yes on Proposition G to help keep Golden Gate Park accessible to everyone.

*Patrick Kociolek, Executive Director*

## RoundAbout

### *News from Around the Academy*

Full moons, among other things, are often associated with romance. On the morning after an August full moon, Academy biologist Bart Shepherd noticed the water in the Coral Reef tank had become quite cloudy. Indeed, the tank's creatures all had their feeding tentacles extended. A quick assessment of the filter revealed that nothing was technically awry, so what could it be? The mystery was solved when Shepherd arrived home and actually witnessed the Giant Clam in his home tank "spawning like crazy." The clam, *Tridacna derasa*, would expand widely to take in water and then release a forceful stream of milk-colored water.

So how do these animals detect a full moon in captivity? A skylight above the Coral Reef tank allows some natural light and heat to reach the inhabitants of the tank, clearly signaling the changing seasons and lunar cycles. Moon or no moon, come visit the Academy's iridescent Giant Clams.

Around town at Mountain Lake, near Park Presidio and Lake Street, you may encounter groups of "citizen scientists" collecting zooplankton, testing water, and surveying the biodiversity of this natural ecosystem that has been heavily impacted by human activity. Many groups are working together to mitigate the decades of human activity and preserve the remnant native populations of plants and animals that inhabit Mountain Lake. The Mountain Lake Enhancement Project is managed by the Golden Gate National Parks Association in partnership with the Presidio Trust and the National Park Service.

The Academy's environmental education program at Mountain Lake gives residents a unique opportunity to help improve the health of this much-loved neighborhood park and understand first-hand the importance of environmental stewardship. The volunteers, ages 12–42, include students from local schools and universities.

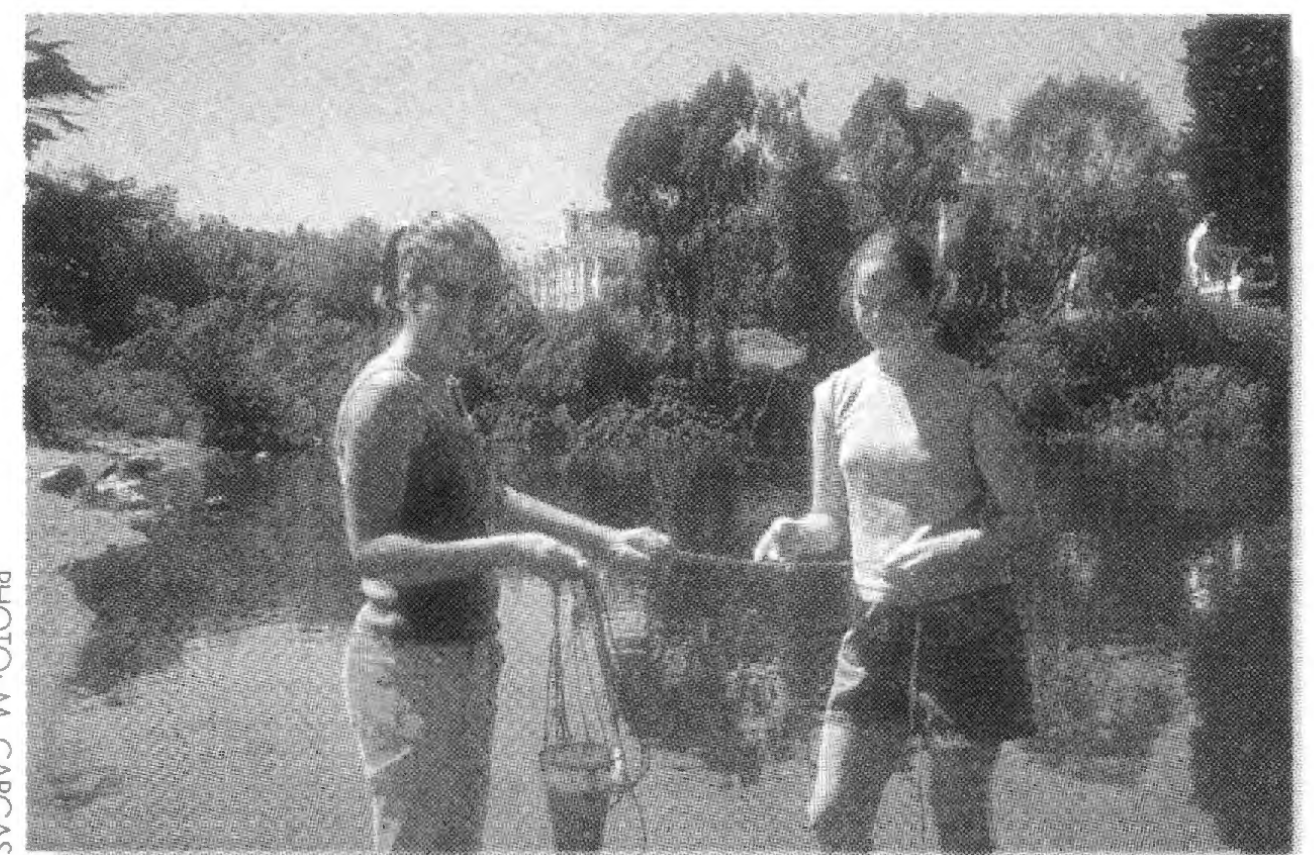


PHOTO: M. CARGAS

Presidio Middle School Girls' Science Club members Molly Benedict and Alison Arth collecting samples at Mountain Lake.

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## Venomous Slugs of Costa Rica's Pacific Ocean

With Terrence Gosliner, Ph.D., Provost & Senior Curator  
California Academy of Sciences

Costa Rica is renowned for the biodiversity of its tropical forests and isolated mountain ranges. Much less is known with regard to the diversity of Costa Rica's marine life.



PHOTO: TERENCE GOSLINER

Nudibranchs are toxic and venomous marine slugs that abound in the tropical waters of the Americas.

The fauna along Costa Rica's Pacific coast has not been well studied. Recent collaborative research between Academy scientists and Costa Rican marine biologists has revealed a remarkable fauna that was previously undocumented.

These studies attest that Costa Rica, the

*Chromodons sphoni*

rich coast, is an especially appropriate name for this country's near shore waters.

October 11  
2 pm & 7:30 pm  
Morrison Auditorium

## Clitso Dedman, Forgotten Navajo Woodcarver

With Rebecca M. Valette, Ph.D.  
Boston College

For many centuries, the Navajos have carved utilitarian objects out of wood. Unlike their Hopi neighbors, they were traditionally reluctant to carve human figurines because of a strong religious belief that the human body reflected the Holy People and should not be reproduced except in a ceremonial context. This tradition was not broken until the 1940s when Clitso Dedman, then in his sixties, began to carve groups of figurines performing the Yeibichai dance. Clitso Dedman was not a prolific artist, carving at most 30 sets of Yeibichai dancers, one of which is on exhibit here at the California Academy of Sciences.

The first part of this illustrated lecture will present Clitso Dedman's fascinating biography and provide a brief background on Navajo curing ceremonies and the Yeibichai dance. The second part will focus on Clitso Dedman's work, highlighting the delicacy of his carving and showing the evolution of his style.

Professor Rebecca M. Valette of Boston College and her husband Jean-Paul Valette recently published *The Life and*

*Work of Clitso Dedman, Navajo Woodcarver* in the spring 2000 issue of *American Indian Art Magazine* and are guest curators of the exhibit entitled "Weaving the Dance: The Yeibichai Tradition in Navajo Rugs 1910-1950" which has been on display at the Museum of our National Heritage in Lexington, Massachusetts.

November 8  
2 pm & 7:30 pm  
Morrison Auditorium

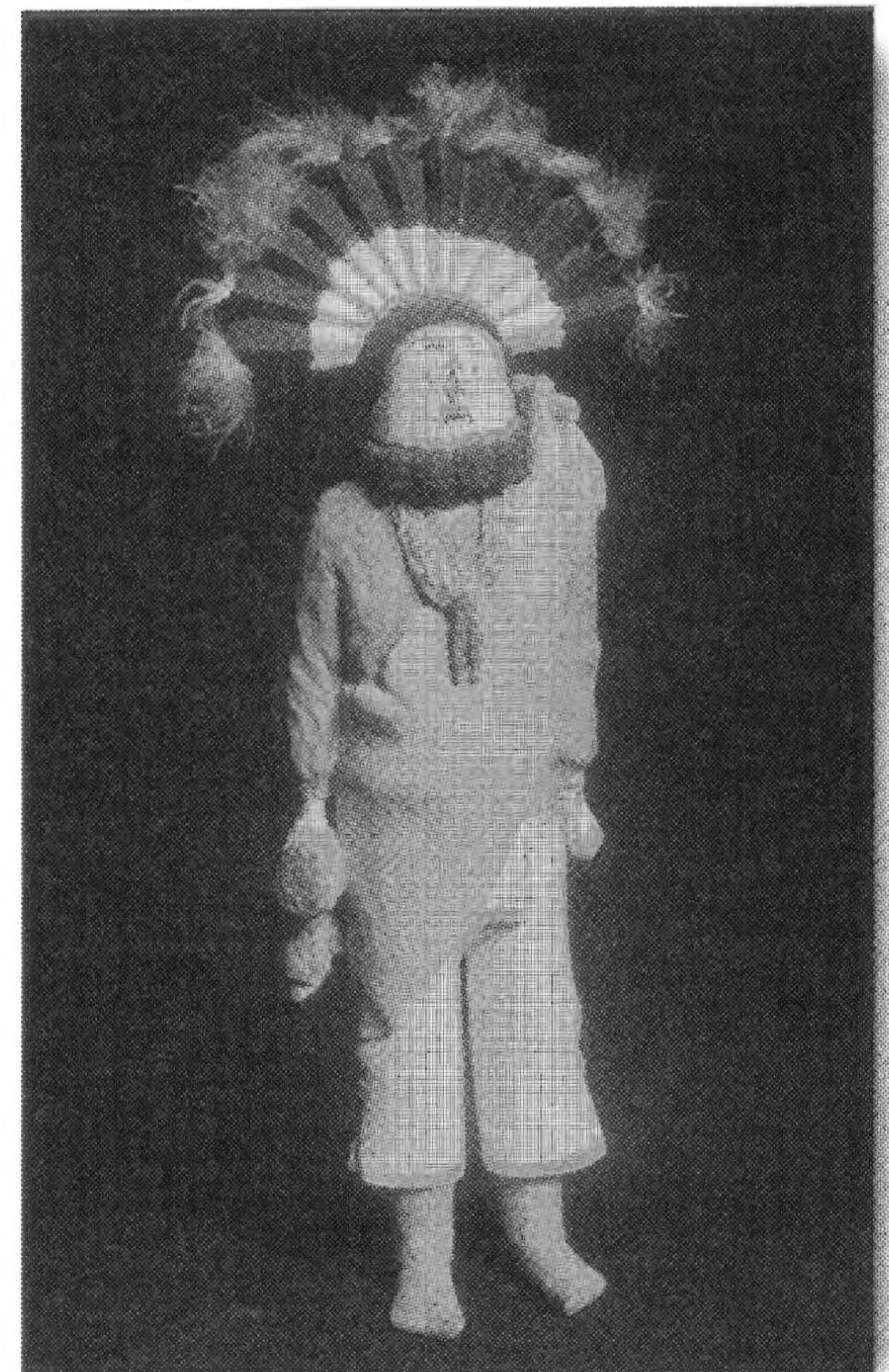


PHOTO: C. DEDMAN

Navajo carving of ceremonial figure

## Upcoming Events & Lectures

**Members' Holiday Shopping Evening,  
Entertainment & Annual Crafts Fair**  
Featuring the **WALDEN MARIONETTES**

December 13

**Melanesia – A Naturalist's Journal**  
With Gary Williams, Curator of Invertebrates  
California Academy of Sciences

January 10, 2001

**Orchid Fever:  
A Horticultural Tale Of Love, Lust and Lunacy**  
With Eric Hansen, Author/Adventurer

Book-signing to follow  
February 14, 2001

**Run to the Far Side**  
**Sunday, November 26th**

## On Our Cover

THE BOY IN THE BANYAN was photographed by David Becker. "On one of my first visits to Vanuatu, my Tanna friends and I had left the coast and were walking inland when I saw him, perched up in the banyan, seeming to grow out of the tree like another branch. I see humanity like that too, another branch on the Tree of Nature." For details on the Vanuatu exhibit, see page 4.



# At home in Vanuatu

TRADITION IN THE WESTERN PACIFIC

A new temporary exhibition opens October 7th: ***At Home in Vanuatu: Tradition in the Western Pacific***. Stunning photographs by naturalist David Becker offer a remarkably intimate view of life within a few island communities.

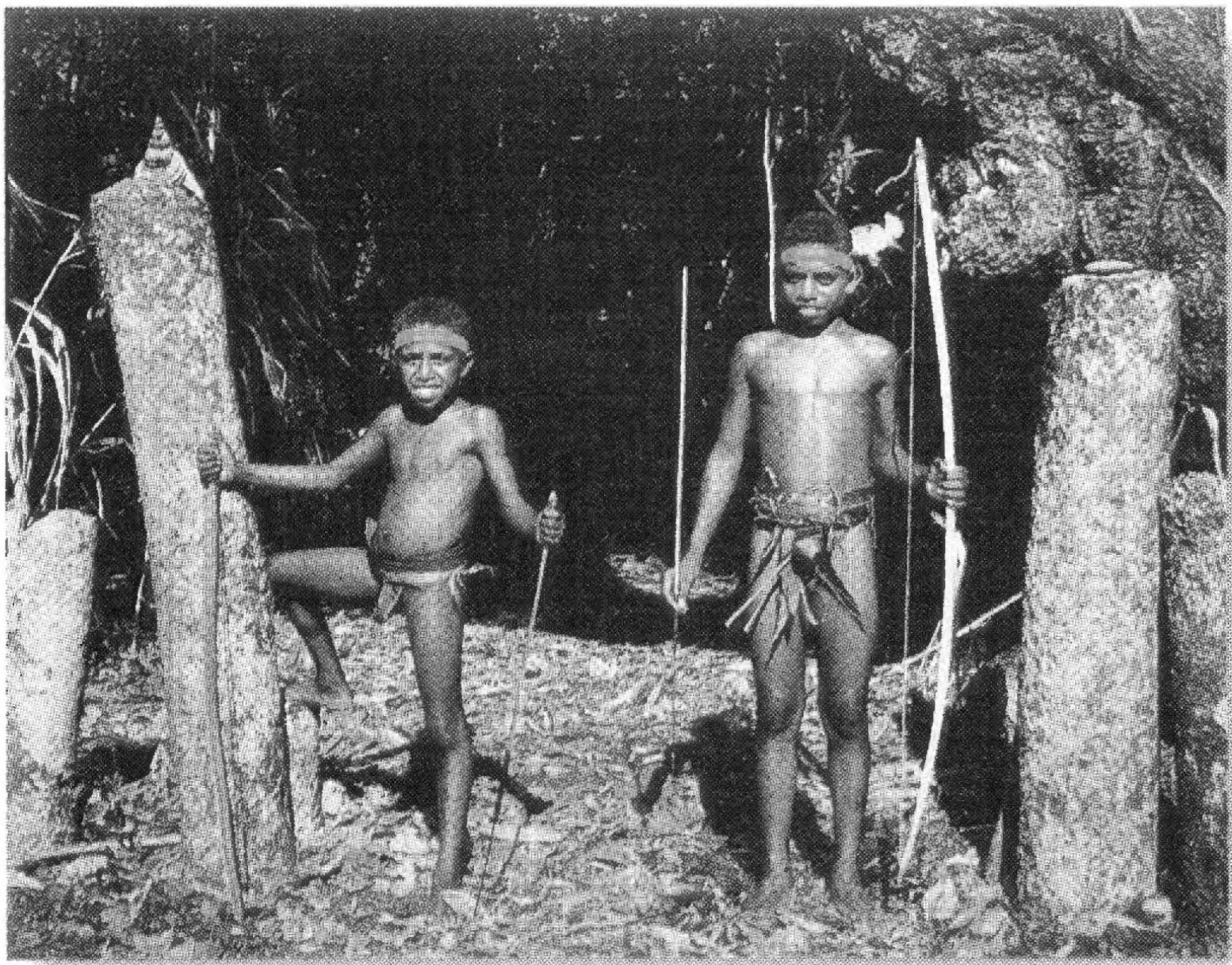


PHOTO: DAVID BECKER

BIRD SEASON: Boys prepare for hunting with their bows and arrows.

Hundreds of volcanic and coral islands comprise Vanuatu, a nation formerly known as New Hebrides. Influenced by centuries of European trade, religion and governance, much of the country is entering the modern world. Yet inland, far from the coastal towns that grow up around missions and trading stations, the lushly forested interior changes more slowly. There are still a few places where tradition remains strong. Surrounded by villages that have adopted many of the trappings of the 21st century, a small number of communities choose to live as the ancient Melanesians did, close to nature and the spirit world of their ancestors.

Photographer David Becker has lived and worked in the Pacific for twenty years. Deep in Vanuatu's island forests, he is welcomed into his friends' homes and on their beautiful dancing grounds. Becker's insights—and his awesome photographs—are rare gifts that the Academy is pleased to share with visitors.



PHOTO: DAVID BECKER

LITTLE LISSANTH: This child was named after an Australian anthropologist, Lissanth Bolton, who does fieldwork in Vanuatu.

## A New View of the Cosmos

This fall, explore our current view of the Universe by visiting two new exhibits in Earth & Space Hall that explain *how* we know all that we know about the Universe. A new exhibit about the discovery of extra solar planets features planetary models, spectra, and video that explain how astronomers and artists work together to interpret scientific data to create visual images of new space discoveries. The work of Morrison Planetarium's award winning astronomical artist Lynette Cook will be featured to demonstrate the collaborative process between research astronomers and artists. Lynette's science illustrations often accompany news stories of astronomical discoveries.

The Academy also celebrates the first decade of discoveries taken with NASA's Hubble Space Telescope, technology that has revolutionized our understanding of the Universe. In the Space Exploration area, see spectacular images taken from the Hubble Space Telescope and a video highlighting significant discoveries made by this Space Telescope that has forever changed our view of the cosmos.

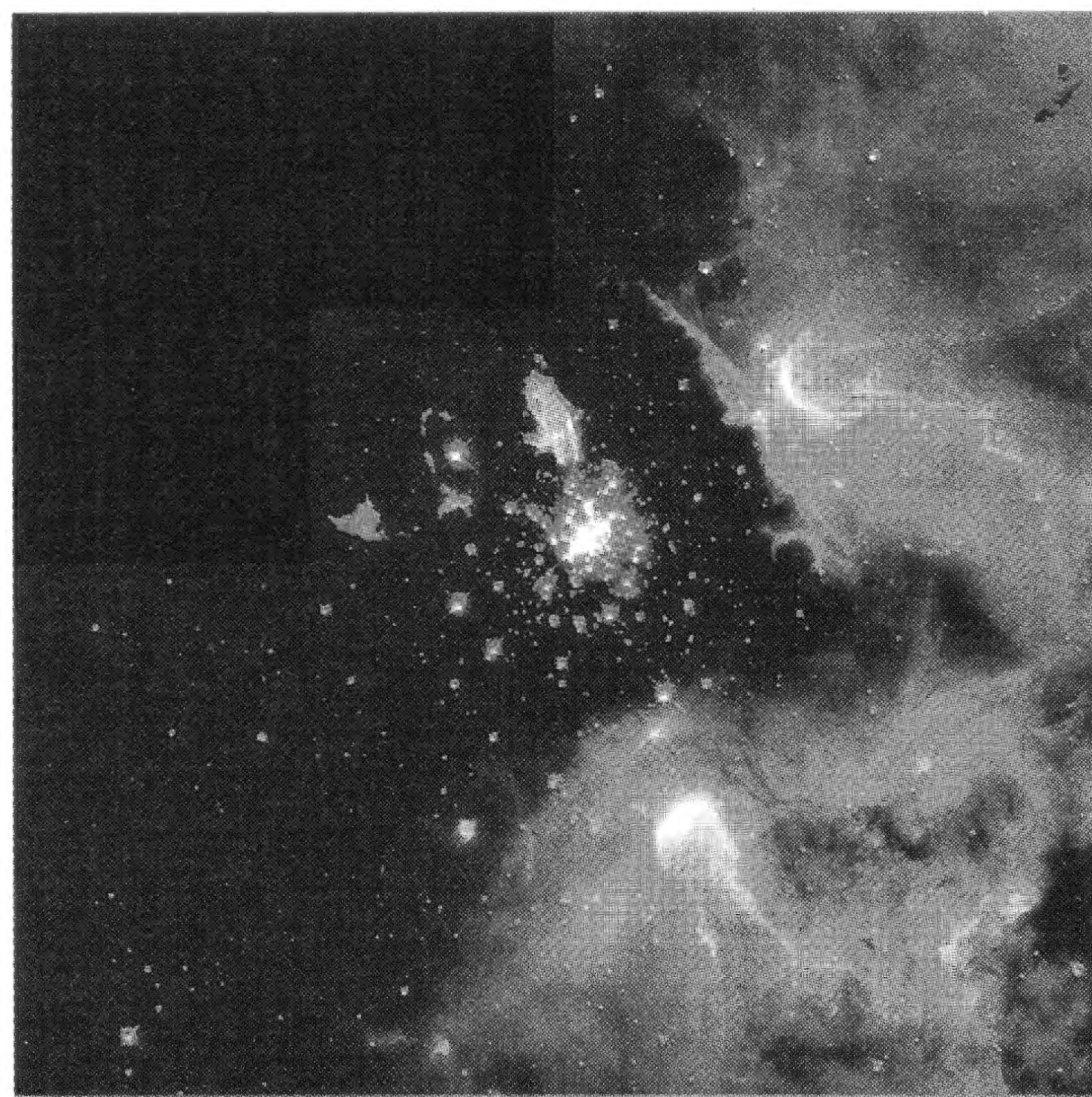


PHOTO: SPACE TELESCOPE SCIENCES INSTITUTE

Hubble captures stars in all stages of their lives.

## Magnificent Elkus

***The Elkus Collection: Changing Traditions in Native American Art***, an ongoing exhibit, showcases one of the Academy's core anthropological collections. Available space, however, only allows for showing a small portion of the collection at one time. To highlight additional selections and to minimize light damage to individual pieces, staff has recently changed all the baskets, textiles, paintings, and kachinas in the exhibit. This represents the third round of objects, so if you haven't seen the exhibit in several months, it's time to see it again. In November, also plan to visit while contemporary potters from different pueblos in New Mexico demonstrate and talk about their work.



# Venoms and Vipers and Vampires, Oh My!—It's Halloween

October 27

You and your family are invited to spend a spooky Halloween at the Academy's annual Halloween Party. This year's theme, "Venoms and Vipers and Vampires, Oh My!—It's Halloween," is inspired by the Academy's ***Venoms: Striking Beauties*** exhibit. Academy scientists will be on hand with specimens from the deepest recesses of their collections. A catered buffet will be provided by McCall Associates, and haunting music will fill the air.

Admission is \$95 per adult; children accompanied by an adult will be admitted free of charge. To purchase tickets, please send payment with the order form on page 14 by October 23. For more information, call (415) 750-7212. Proceeds from the Halloween party support Academy research and education programs.



PHOTO: DONG LIN

Halloween revelers have a spooktacular time with Academy specimens.

## Academy Summer Gala A Hit

Nearly 1,500 guests enjoyed a night of striking beauties, music, dancing, food and drink, fangs and stingers at the 9th Annual Summer Gala in July. The ball featured a raffle of a Rolex watch courtesy of Shreve & Co.

Special thanks go to co-chairs Megan Fung and Christine Chessen, and all the Drop Dead Ball committee members who worked hard to ensure the success of this event. Webvan, Wells Fargo Foundation, The Gap, Shreve & Co., and



PHOTO: WEBER SHIH

Academy Summer Gala, the "Drop Dead Ball."

marchFIRST led broad corporate sponsorship of the Drop Dead Ball. Net proceeds from the "Drop Dead Ball" support the Academy's mission to explore and explain the natural world.

## The Quiet Revolution in Investing

Join us for a special presentation important to anyone interested in the current world of investments. This timely seminar will explore fundamental changes occurring in the investment world, how these changes are revolutionizing the nature of investment products, and their influence on your future investment strategies.

Our speaker, Ed Osborn, J.D., CFP, is Chief Investment Partner of Bingham, Osborn & Scarborough LLC in San Francisco, a fee-only investment management and financial planning firm. Ed is a popular speaker at Academy seminars, and a published author frequently quoted in the Wall Street Journal and MONEY Magazine.

The seminar fee is \$10, attendance is complimentary for Eastwood Associates. Please enroll by October 5th using the order form on page 14, or call (415) 750-7216 for more information. Attendance is limited.

October 17, 4-6 pm  
Goethe Room

## New Donor Circle Members

May through June 2000: \$125 to \$999

Many thanks to the following new donors, and those who have increased their support of the Academy in the last few months.

Mr. & Mrs. Scott Anderson  
Mr. & Mrs. Fernando Balazs  
Mrs. Gertrude J. Balch  
Mr. Douglas Barth  
Ms. Elaine Bauer  
Ms. Joan K. Boyd  
Mr. Bruce Braden  
Ms. Martha Breed  
Mr. Chris Brodrick  
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Mr. & Mrs. Joseph O. Tobin  
Ms. Maria Tomalinas &  
Mr. Roen Hilomen  
Ms. Laura Torres  
Mr. & Mrs. R. Wallace  
Wertsch



## American Indian Heritage Month

Celebrate American Indian Heritage Month at the Academy and explore American Indian art, traditions, and history through interactive demonstrations and performances.

All programs are free with admission unless otherwise noted. For our most current schedule of events call (415) 750-7143 or visit our website at [www.calacademy.org](http://www.calacademy.org)



### Pueblo Pottery



A polychrome pot by Zuni artist Milford Nahohai

Artists from three different Pueblos will demonstrate the art of creating various forms and styles of pottery. Using traditional methods and materials, each artist has developed his own individual style and interpretations of those

traditions. Milford Nahohai (Zuni Pueblo) makes his own polychrome versions of traditional Zuni vessels. Lonnie Virgil (Nambé Pueblo—Tewa) makes large micaceous jars, while Thomas Natseway (Acoma/Laguna Pueblo) makes miniature replicas of prehistoric Laguna pottery.

November 3, 4, 5 10 am–4 pm, Elkus Exhibit

### Meet the Artists

Dr. Nancy Olsen, from the University of New Mexico, Albuquerque, will moderate a panel discussion with the three artists.

November 5 1 pm, Auditorium

### Life Work Of Clitso Dedman

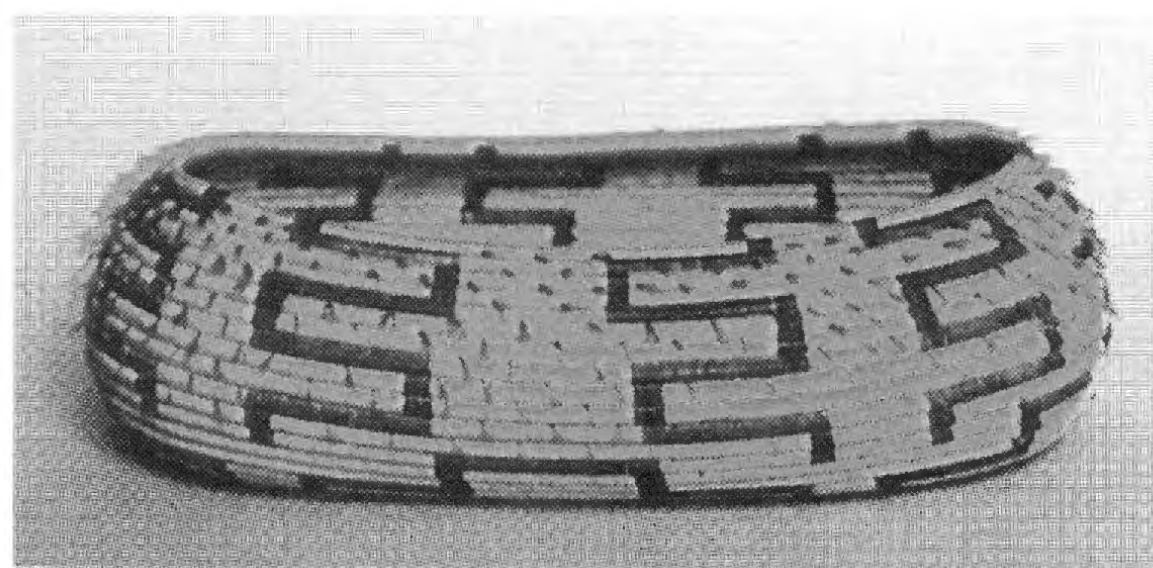
Special Members Lecture with Dr. Rebecca M. Valette

November 8 See description—page 3

### California Basketry

Join basket weaver Julia Parker and her daughter, Lucy, for an interactive demonstration of various styles of California Indian basketry. Julia Parker is a renowned Pomo basket weaver who has practiced and taught basketry for over thirty years. Pomo baskets from Northern California are among the finest in the world.

November  
24, 25, 26  
11 am–4 pm  
Elkus Exhibit



Pomo coil basket

## Fauna of America: A Heritage to its People.

Explore the human relationship with wildlife in the Americas as we meet a live golden eagle, an American alligator and other live animals. We'll also listen to the Bay Area Ohlone stories: *When the World Ended and How Hummingbird Got Fire* as told by Ohlone Indian storyteller Linda Yamane who compiled, illustrated and published these stories. This program is presented in conjunction with Wildlife Associates ([www.wildlifeassociates.org](http://www.wildlifeassociates.org)) a non-profit organization dedicated to conservation and environmental education.

November 24  
1 & 2:30 pm, Auditorium



Golden Eagle

PHOTO: ALAN KARLIN

## Public Programs

Explore the intriguing world of venom through new programs and live animal presentations. For the most up-to-date schedule, check our website ([www.calacademy.org](http://www.calacademy.org)), or call (415) 750-7145. Most programs will be held in the exhibit and are free for Academy members unless otherwise noted.



### Dangerous Liaisons

Experience the extraordinary world of venomous insects and spiders through a hands-on presentation by the Insect Discovery Lab from San Francisco State University.

October 4, 18, November 1, 15 2 pm

### Color Me Deadly

Venomous animals, such as the Sonoran coral snake, often use bright colors to advertise their lethal natures. Join us for a coloring adventure and take home your own colorful venomous creature.

October 5 12:30 pm (Appropriate for ages 5–10)

### Tarantulas: Beauty or Beast?

Join us for a live tarantula presentation and discover the secrets behind the fangs of these oft-maligned arachnids.

October 7, 14, 21, November 5, 12, 26  
12:30 & 2:30 pm



## Venoms ER

Discover what happens to people after a venomous bite or sting. See some of the tools used in an emergency room to treat envenomation in humans and learn what you can do locally to avoid a venomous bite or sting.

All Sundays in October, October 9, November 4, 11, 25,  
12:30 & 2:30 pm

## Black Widows To Go

Drop by to make your own black widow using paper and other craft materials. Learn to tell the difference between black widows and other spiders.

October 11 12:30 pm (Appropriate for ages 5 – 10)

## Rattlesnakes Alive!

Get up close and personal with a live Northern Pacific rattlesnake as naturalist Katie Colbert talks about their intriguing habits in the Bay Area. This program is presented in conjunction with the East Bay Regional Park District.

October 28, November 19 12:30 & 2:30 pm

## Ouch! Bites and Stings

Whether it is a black widow crawling in your backyard, yellow jackets building a nest on a tree or a velvet ant resting on the trail, California has its share of venomous insects and spiders. What happens when humans and these venomous arthropods come into close contact? Join us in an interactive program that will explore the interaction between humans and venomous insects and spiders in California.

November 18 12:30 & 2:30 pm

## Snake Mimicry

Meet live snakes and discover how some of them play tricks on predators by changing their appearance and behavior.

Tuesdays in October and November 12:30 & 2:30 pm

## Wasps and Bees

Find out about the success story of wasps and bees in nature and why venom provides them with the ultimate weapon for survival.

Fridays in October & November  
12:30 & 2:30 pm



PHOTO: ED ROSS

Yellow Jacket building nest

## Jungles, Frans Lanting

The Academy and the Discovery Channel Store will co-host a lecture and slide show by photographer Frans Lanting on his new book *Jungles*. November 16 at 7:30 pm, San Francisco's Metreon, 4th and Mission Streets. Admission is free. A percentage of book sales will be donated to the Academy. For reservations, call (800) 344-1796, ext. 2722

## Traditional Arts of the World

All programs take place at 1 pm on select Saturdays in the Morrison Auditorium, unless otherwise noted. Presentations are free after general museum admission, and no reservations are needed. For further information on these and other Traditional Arts Programs, contact Dr. Jennifer Michael in the Anthropology Department at (415) 750-7165. The Traditional Arts Program is funded by the Paul L. and Phyllis Wattis Foundation.

## October 7—Traditional Irish Dance

Patricia Kennelly and her students from the Kennelly School of Irish Dancing will entertain and instruct us with a program of Irish dances in the style made popular by *Riverdance*. These high-stepping performers offer jigs, reel, and hornpipes in a spirited display of Irish tradition.

## October 21—Regional Dances from Chile

Estampas de Chile offers a program of lively dances from the various regions of Chile—southern, central, northern, and Easter Island. Various influences—Andean, Spanish, maritime, Polynesian, among others—have shaped Chilean culture, a phenomenon evident in these diverse dance styles.

## November 3–5—Pueblo Pottery

See American Indian Heritage Month Celebration – page 6

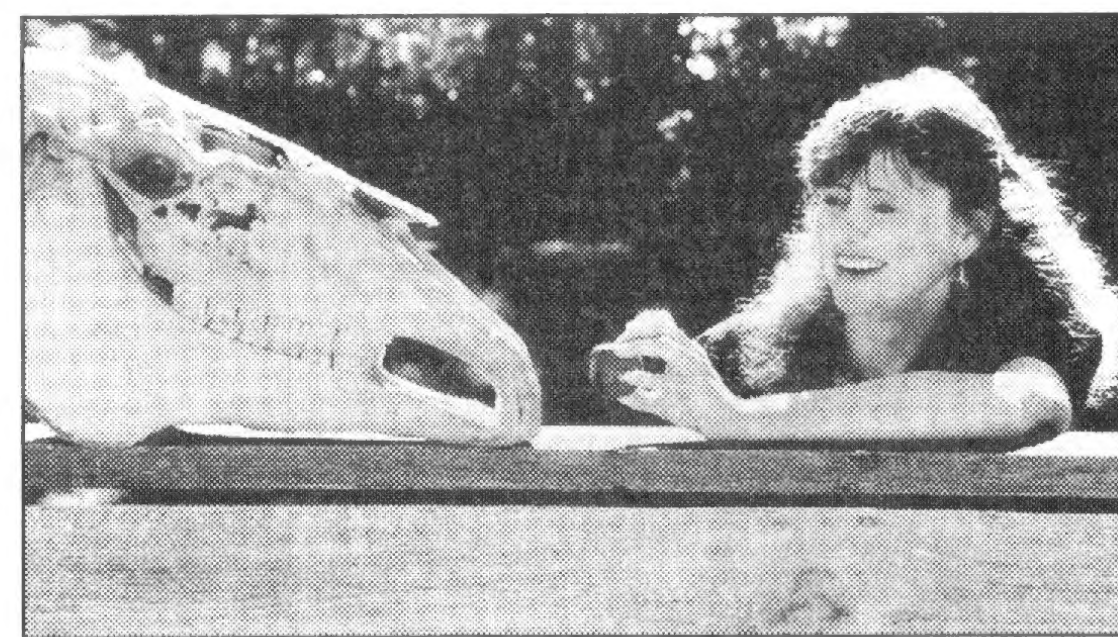
## November 5—Meet the Artists

See American Indian Heritage Month Celebration – page 6

## November 11—Between the Worlds: A Post-Halloween Concert

Halloween is known in Irish as *Sambain*, the end of the harvest. It is the time to communicate with the spirits of the

dead and of the Otherworld. Come hear and sing traditional and satirical songs about our relationship with the world of spirit. Holly Tannen is a priestess of the Irish goddess Brighid and a folklorist specializing in European folksong and magic. Her most recent CD is *Rime of the Ancient Matriarch*.



MICHAEL JHON

Holly Tannen

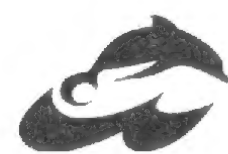
## November 18—Folk Music from Northern China

Playing the *pipa* (lute), the *ruan* (mandolin), and the *gebu* (cello), members of the Mandarin String Trio present a program of traditional instrumental music from the north of China. Their performance will be preceded by selections of Chinese vocal music by Wilma Pang.



## The Marine Conservation Lecture Series

The California Academy of Sciences, the Commonwealth Club of California, and the Pew Fellows Program in Marine Conservation are pleased to present a new lecture series focusing on marine ecosystem conservation, marine contamination, population pressures,



**PEW FELLOWS PROGRAM**  
IN MARINE CONSERVATION

fisheries management, and shark conservation.

### Poisons and Pollutants and Pesticides, Oh My!

Susan L. Anderson, Associate Research Biologist,  
UC Davis, Pew Marine Conservation Fellow

Marla Cone, Environmental Writer,  
Los Angeles Times, Pew Marine Conservation Fellow

Just how clean are the waters of San Francisco Bay? Join Susan Anderson and Marla Cone, as they discuss the biological effects of marine and estuarine contamination on aquatic life. Learn about the present status of



Susan L. Anderson

San Francisco Bay, and what can be done to protect this vital and precious local resource.

October 19 (Thursday) 6:30 pm  
\$6 members/\$10 non-members  
The Commonwealth Club of California,  
595 Market Street (at 2nd Street),  
San Francisco



Marla Cone

### Up to Our Necks in California Waters

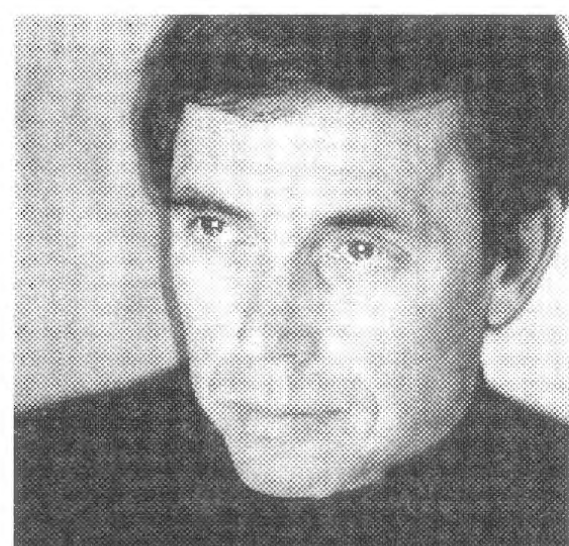
Burr Heneman, Marine Conservation Policy Consultant,  
Pew Marine Conservation Fellow

John McCosker, Curator & Chair, Department of Aquatic  
Biology, California Academy of Sciences

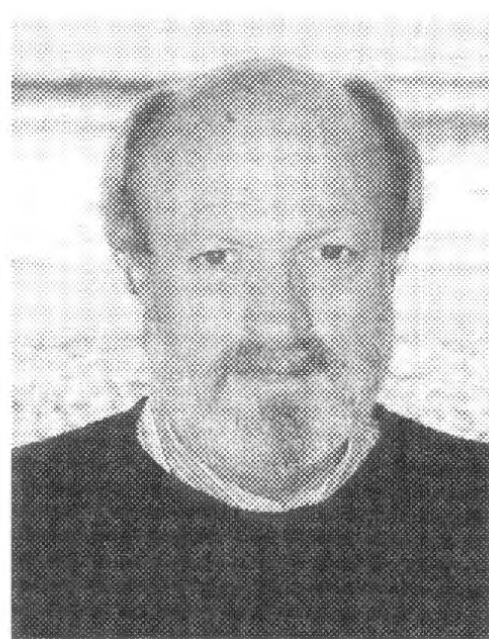
Covering issues of fish and fisheries, the development of the environmental movement, marine resource management, and the protection of the Great White Shark, to name just a few, Heneman and McCosker share their knowledge of the California coastline

in a wide-ranging conversation.

November 15 (Wednesday) 7:30 pm  
\$6 members/\$10 non-members  
Morrison Auditorium,  
California Academy of Sciences



John McCosker



Burr Heneman

## Academy

### Pandora's Picnic Basket: The Potential and Hazards of Genetically Modified Foods

Alan McHughen, Senior Research Scientist, University of Saskatchewan, Canada

In recent years, debates and passions have flared on the research, consumption, and business of genetically modified (GM) foods. The overriding question remains, in the public's perception particularly: are these crops healthy for consumers? From environmental concerns to issues in labeling, McHughen explores the myths and reveals the true risks, as well as benefits, of utilizing GM technology.

October 5 (Thursday) 7:30 pm  
\$6 members/\$10 non-members  
Book-signing immediately following the lecture  
Morrison Auditorium

### Plants and Your Health

Thomas M. Newmark, Author, President, New Chapter

The environmental organization New Chapter, based in Brattleboro Vermont, is engaged in several projects around the world that promote biodiversity in agriculture. Newmark reports on an organic ginger estate that New Chapter sponsors in Costa Rica, citing the specific farming practices that both protect the environment and increase the farm's biodiversity. Newmark's work in the field of ethnobotany is also a focus of his new book *Beyond Aspirin*, co-authored by Paul Schulick. With the book as background, Newmark discusses the properties and potential health benefits of several plants such as ginger, green tea, rosemary, feverfew, and hops.

October 18 (Wednesday) 7:30 pm  
Please note: this lecture will be held in the Recreation Room at the San Francisco County Fair Building, East Wing  
9th Avenue at Lincoln Way  
\$8 members/\$10 non-members  
Presented in collaboration with Strybing Arboretum Society and New Chapter

### The Peopling of the Pacific

Patrick Kirch, Professor of Anthropology, UC Berkeley

The Academy's new exhibition, *At Home in Vanuatu: Tradition in the Western Pacific*, provides the background for this lecture about pre-European human exploration and settlement of the Pacific Islands. Kirch discusses his new book *On the Road of the Winds*, which summarizes much of his own research, including the interconnections between humans and their environments, and the occasional over-exploitation of natural resources on the island ecosystems of the Pacific.

October 26 (Thursday) 7:30 pm  
\$6 members/\$10 non-members  
Book-signing immediately following the lecture  
Morrison Auditorium



## Adult Classes

### Pottery-Making Technology in New Mexico

Seminar

It is often stated that science runs our lives. This may be said without fully realizing the influential role people play in determining the direction technology takes. Today's Pueblo potters of New Mexico and Arizona are beneficiaries of 1,500 years of pottery-making technologies, passed from generation to generation by word of mouth and demonstration. This class examines how potters at Acoma and Laguna Pueblos have influenced the types of pottery they make according to their own cultural preferences. Explore the ways in which creativity influences science and how culture influences creativity.

Nancy Olsen

October 7 (Saturday)

10 am–2 pm

\$15 members/\$20 non-members

### Fall Botanical Foray on the Mendocino Coast

Seminar and Field Trip

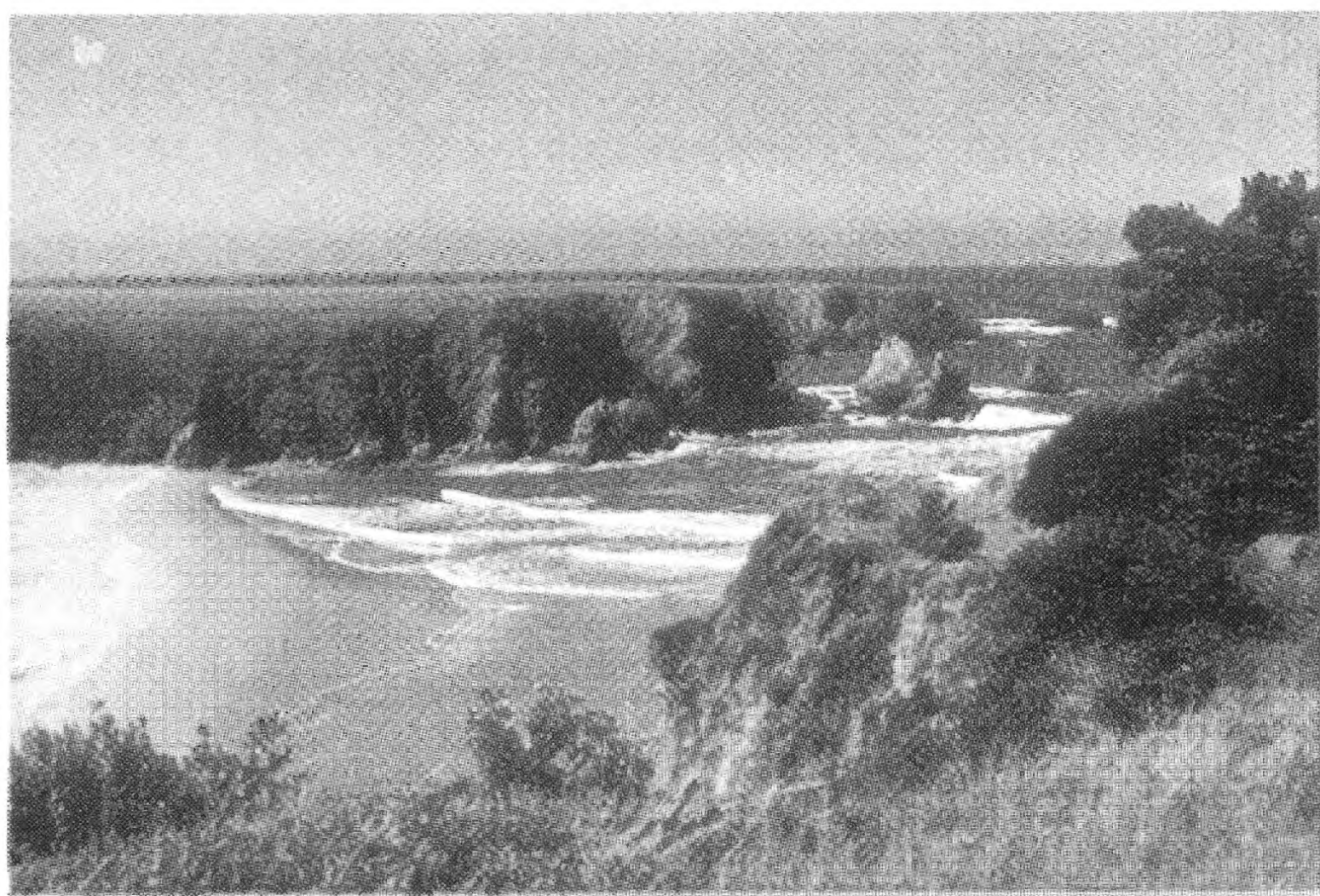


PHOTO: CECIL W. IDEN

Terrace and cove at Jughandle Gulch, Mendocino

Fall brings a quietness and subtle beauty to the picturesque Mendocino Coast. This is the time to look at many of the shrubs, trees, ferns, mushrooms, and mosses that have come into their own. Learn to identify the native plants and their natural communities, including bogs, redwood and closed-cone pine forests, pygmy forest, sand dunes, and coastal bluffs. Spend an evening learning background botany; the following Saturday, join Keator in Fort Bragg for the weekend's field experience in McKerricher Dunes, Jughandle Creek State Reserve, Van Damme State Park, and the Mendocino headlands.

Glenn Keator

Seminar October 4 (Wednesday)

7–9 pm

Field Trip October 7–8 (Saturday and Sunday)

Saturday 8:30 am–Sunday 2:30 pm

\$80 members/\$90 non-members

(Does not include transportation or accommodation)

### The Mouseion of Alexandria—The First Museum

Seminar

In Alexandria, Egypt, 2,300 years ago, an institution was created that brought together the greatest scholars, the largest library, and the most diverse collection of natural artifacts known to the ancient Greek world. At its peak it had as many as 100 salaried scholars and more than 500,000 books, as well as a botanical garden and a zoo. It became the epicenter of research in astronomy, mathematics, medicine, geography and most other natural sciences. Despite its destruction in the 5<sup>th</sup> century AD, it remained the model for natural history museums and research centers that emerged 1,500 years later. The California Academy of Sciences is an inheritor of the great tradition begun at the *Mouseion* of Alexandria. Examine the founding of the Alexandrian Museum and the nature of the scientific research carried on there for more than 700 years through Greek, Jewish, Roman, Egyptian and Christian influence.

John Dillon

November 21 (Tuesday)

7–9 pm

\$15 members/\$20 non-members

## Family Classes

### Cone Peak Climb

Field Trip

Come climb a mountain! At 5,155 feet, Cone Peak is not a giant by California standards, but it is a stunning pinnacle with awe-inspiring views of the Big Sur Coast and the rugged Santa Lucia Mountains. With its limestone crags and steep slopes, it is home to a complex assembly of rare and endemic plants. During the hike, learn about the dynamic geology, discuss the natural history, look for birds along the ridgetops, and view the awesome, sparkling-blue Pacific. The trailhead is located about two-and-a-half-hours from San Jose. The 5.5-mile round-trip hike is on a narrow trail and it is a moderately strenuous climb to the top. Hiking experience is recommended. Clear weather should provide excellent views up and down the coast. Open to families with children eight years and older.

Greg Meyer

November 19 (Sunday)

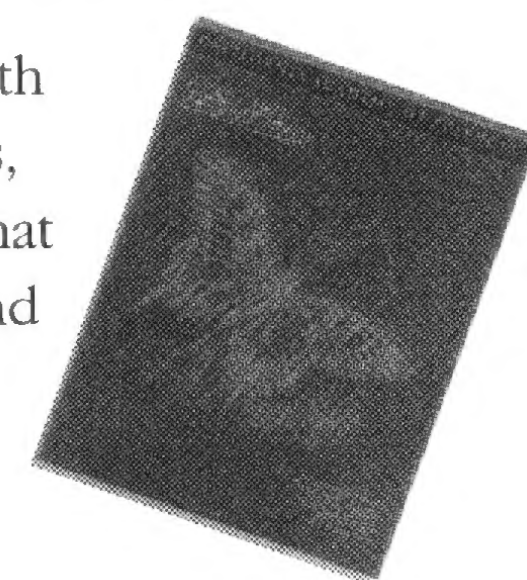
10 am–4 pm

\$20 adults/\$15 children, members

\$25 adults/\$20 children, non-members

### Education Course Catalog Now Available

Check out our new-look Course Catalog with more than 100 courses for adults, educators, parents, children and families! The new format will help you plan and schedule lectures and classes up to six months in advance. To request a catalog call (415) 750-7100, or access it online at [www.calacademy.org](http://www.calacademy.org).





## Benjamin Dean Lecture Series

The Fall 2000 Benjamin Dean Lecture Series continues its look forward to what we may be able to learn about our Universe during the coming millennium. Starting with the current explosion of information, our speakers will explain how our views are changing, then lead us through possibilities in the future from a historic perspective, by applying a rigorous scientific viewpoint, and through the visionary imagination of the science fiction writer.

### Mining the Sky: New Astronomy with a Virtual Observatory

Dr. Robert Brunner

New digital sky surveys by ground based and orbiting observatories are producing vast amounts of information. There is a phenomenal increase in the quantity of data being collected which is becoming overwhelming to the astronomical community. How can all this raw data be correlated and analyzed? To handle this explosion of information, astronomers are developing a "virtual observatory," a federation of digital sky surveys and archives. This will assure that, not only those directly involved in conducting the surveys, but all researchers will have an opportunity to peruse and exploit this new data richness.

How will this anticipated tool add to future astronomical understanding? First, it will allow for unprecedented systematic studies of the universe, which may lead to discoveries of rare or previously unknown types of objects. Secondly, it could be used as a powerful new public outreach tool, bringing the information directly to the community of amateur astronomers and the general public.

Dr. Robert Brunner of the department of astronomy at the California Institute of Technology will explain how the virtual observatory will be organized and administered in his talk, "Mining the Sky: New Astronomy with a Virtual Observatory."

Tuesday, October 17

### Hyperspace, Time Machines, Wormholes, and the Theory of Everything

Dr. Michio Kaku

Basic astronomical research is two-fold: it is an observational exercise, the collecting of data on the physical universe, and a theoretical endeavor where explanations of that data are extrapolated into future possibilities. Ever since Einstein's introduction of the theories of relativity, physicists have been trying to find an underlying, unifying thread that can explain all matter. Are we getting close to this Theory of Everything?



Michio Kaku

Is it even possible to attain? What are the implications of such an all-encompassing theory? What lies beyond?

Dr. Michio Kaku, professor of theoretical physics at the City College of the City University of New York, spent many hours of his youth wandering the halls of the California Academy of Sciences, developing his interest in the bizarre and extreme realms of theoretical science, and was a grand prize winner in the High School Science Fair here with a project on creating anti-matter. He has since become one of the major visionaries and scientific spokesmen of our day, detailing and popularizing new bold concepts of the universe. Dr. Kaku will return to the Academy to lead us on a scientific odyssey through the strange but possible world of hyperspace, including parallel universes, time warps, time machines, wormholes and the tenth dimension. His visionary approach to the universe will give insights to the possible direction of astronomy in the coming millennium. Join him for a mind-stretching experience.

The Academy Bookstore will be open for the evening, and following his talk, Dr. Kaku will be available to sign two of his popular books: *Visions: How Science Will Revolutionize the 21st Century* and *Beyond Einstein: The Cosmic Quest for the Theory of the Universe*.

Tuesday, November 7

### Millennium and Astronomy: Past and Future

Dr. Anthony Aveni of Colgate University

Tuesday, December 12

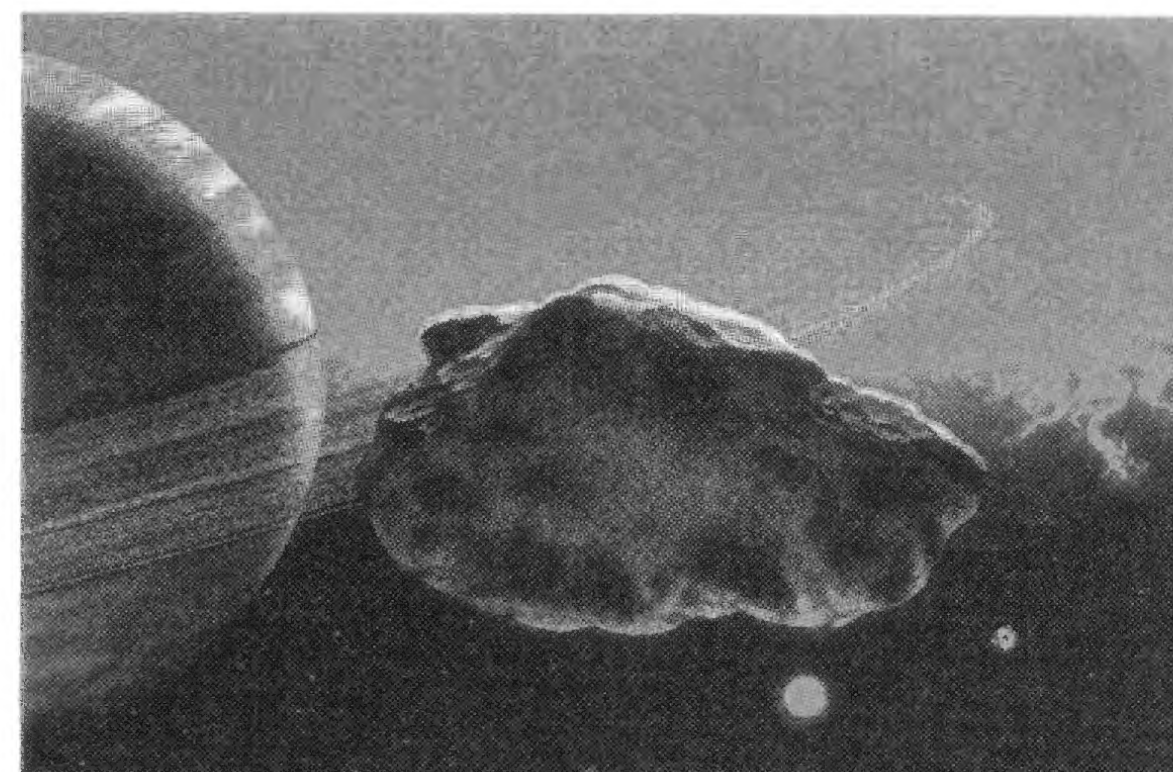
### The Blind Leading the Seers: Science Fiction and Science

Joe Haldeman of MIT

Tuesday, January 23

**All lectures are in the Morrison Planetarium at 7:30 pm. Tickets for Benjamin Dean Lectures are \$3.00 at the door, or purchase ahead through the Planetarium Office. For more information call, (415) 750-7141.**

Updates are being made to Earth & Space Hall. See page 4 to read more about images from the Hubble Telescope and Lynette Cook's art.



ARTIST: LYNETTE COOK

Sub-Saturn mass planet, HD46375b discovered by the Marcy/Butler extra solar planet search project.



# The Academy's 16th Annual Run to the Far Side

Sunday, November 26

It's that time of year again. Bring out the turkey, cranberry sauce, stuffing, and top it all off with a Run to the Far Side! The 5K and 10K Run to the Far Side is a Thanksgiving weekend tradition that pays tribute to the zany cartoon creations of Gary Larson. It is the only race where herds of costumed cows, chickens, squid, cavemen and assorted Far Side fanatics compete side-by-side with serious athletes in a beautiful jaunt through Golden Gate Park.

Costumes honoring Larson cartoon characters are a race tradition in the 5K, with a costume contest following the race. Those more interested in slimming their waistline from the recent Thanksgiving dinner feast are invited to join in the 10K run.

The race starts at 8:30 am near the Academy of Sciences. The race's many loyal sponsors provide additional incentives to participants with post-race refreshments, entertainment and festivities on the Music Concourse after the run.

## CALIFORNIA ACADEMY OF SCIENCES'



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## RUN TO THE FAR SIDE XVII

Prizes for the 1st place winners of the 5K and 10K race and costume contest include Run to the Far Side daytime planners and Far Side Memorabilia autographed by Gary Larson.

Following the race, registered runners are invited into the Academy of Sciences to enjoy the Steinhart Aquarium and natural history museum for free. **Public transportation, carpooling and bicycling are strongly encouraged.**

Registration fees are \$18 for members of the Academy of Sciences and \$23 for nonmembers, or \$30 for all on race morning. Race fees support environmental education and research programs at the Academy of Sciences. To register, please send this registration form by November 17, or call the RhodyCo race hotline at (415) 759-2690. If you

would like to volunteer the day of the race, please contact Molly Cargas by November 15 at (415) 750-7144 or e-mail at [mcargas@calacademy.org](mailto:mcargas@calacademy.org).



The Chronicle



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Host/Beneficiary: California Academy of Sciences • Race Management: RhodyCo Productions • RACE HOTLINE: (415) 759-2690

RUN TO THE FAR SIDE XVII

**PRE-REGISTER:** by November 17th for \$23. (Members of the California Academy of Sciences are \$18.) Mail checks (payable to C.A.S.), signed, completed entry form and a self-addressed, stamped envelope to **RUN TO THE FAR SIDE** c/o RhodyCo Productions - 1417 Irving Street. San Francisco, CA 94122.  
**OR JOIN US RACE DAY FOR \$30. Sorry, no refunds. One entry per person.**

SEX <input type="checkbox"/> M <input type="checkbox"/> F		MONTH <input type="text"/> DAY <input type="text"/> YEAR <input type="text"/>		Age (on race day) <input type="text"/>		<input type="checkbox"/> WHEELCHAIR		<input type="checkbox"/> For Official Use Only	
DATE OF BIRTH <input type="text"/> - <input type="text"/> - <input type="text"/>									
LAST NAME <input type="text"/>		FIRST <input type="text"/>							
ADDRESS <input type="text"/>									
CITY <input type="text"/>		STATE <input type="text"/>		ZIP <input type="text"/>					
<input type="checkbox"/> 5K <input type="checkbox"/> 10K		<input type="checkbox"/> CALIFORNIA ACADEMY OF SCIENCES MEMBER # <input type="text"/>		<input type="checkbox"/> NON-MEMBER		PHONE# <input type="text"/>			

**WAIVER:** In consideration of your accepting this entry for RUN TO THE FAR SIDE XVI held on November 26, 2000, I, intending to be legally bound, do hereby for myself, my heirs, executors, and administrators waive and release any and all rights and claims for damages I may accrue against the California Academy of Sciences, the Recreation and Parks Department, City and County of San Francisco, RhodyCo Productions, Total Race Systems, USA Track & Field, their employees, representatives, all sponsors and volunteers for any and all injuries that may be suffered by me at or enroute to or from the event. I attest that I am physically fit and sufficiently trained for this competition, my physical condition verified by a licensed M.D. during the last six months. I will assume my own medical and emergency expenses in the event of an accident or other incapacity or injury resulting from or occurring from my participation. As part of the waiver I acknowledge that I have read and understand all of the above and, in consideration of this being an amateur event, I grant full permission to any and all organizations which obtain photographs, motion pictures, videotapes, recording or any other record of this event to use them for any purpose whatsoever.

SIGNATURE \_\_\_\_\_

DATE: \_\_\_\_\_

ALL ENTRANTS MUST READ & SIGN WAIVER. (Parent or Guardian must sign if under 18)



# Academy Expedition in China 2000

*In Kunming, they say,  
you drown in the beauty of the clouds.*

As part of a global, collaborative effort to preserve biodiversity in China, the California Academy of Sciences launched the China Natural History Project (CNHP) in May 1998. The pilot project of CNHP was a biodiversity survey of the Gaoligong Shan region of north-western Yunnan Province.

In June 2000, Academy botanists, entomologists, ichthyologists, and a herpetologist and mammalogist returned to join their colleagues from the Kunming Institutes of Botany and Zoology to undertake further biodiversity survey work in the Nujiang Forest Reserve. Results of the fieldwork will be of major interest to policy-makers and conservationists.

Because of its concentrations of ancient and recent endemic species, it is theorized that the region of study is an isolated paleoenvironment that has remained remarkably stable through the climatological changes brought about by the Miocene collision of the Indian tectonic plate with East Asia.

## Letters From the Field

**June 30** – Kunming. We arrive through layer upon layer of monsoon rain bearers, each one drowning us in a waterfall of turbulence. The Academy zoologists, Joe Slowinski and Dave Catania, together with mammalogist, Richard Tenaza, an Associate from the University of the Pacific and Carl Ferraris, Dong Lin and I arrive on schedule and are greeted warmly by all our hosts from the Institute of Zoology (KIZ). KIZ has the third biggest collection of species in China and yet almost all its specimens come from southwest China and most of them just from Yunnan province. Their collection drawers reveal great hornbills, golden pheasants, silver pheasant with the brown and white herring bone patterned wings, Lady Amherst's pheasant, cranes, every hue of stunningly colored sunbirds—the Eurasian counterpart to the hummingbirds and kingfishers. The mammalian pelts are kept in a room where the odor of preserving arsenic is suffocating at first, but worth mastering in order to explore the wealth of wildlife that once ranged through the Chinese forests. Skins of cats—leopards, clouded leopard, a cluster of civets, tigers, taken from poachers, stretching 10 feet, golden cats—sun bear coats, still shiny, Asian black bear, rare deer, countless



PHOTO: DONG LIN

Scientists from Kunming and the Academy gather in Gongshan.



PHOTO: DONG LIN

The view from Qiqi Forest Station.

slow loris and monkeys, macaques, gibbons, and one specimen of *Semnopithecus pileatus* (a type of gibbon) found in Gaoligong Mountains where we're heading that's a complete sewn pelt and the spitting image of Sesame Street's Oscar.

**July 4**—Fugong. The road has a mind of its own. The route follows alongside the Salween, or, in China, Nujiang which means Angry River, but the province should be called Angry Road. It runs at the bottom of a narrow gorge, and is continually prone to landslides. Despite the lack of significant rain over the last few days, we got caught by a doozy.

No sooner had the cars begun to stack up behind the landslide, than the scattered farmers on the far bank, gathered their extra provisions—water, cigarettes, fruit, cookies, and, using a cable stretched over the river harnessed themselves to a pulley and came flying over—about 200 yards. At least one spread her arms wide, so she could enjoy flying. Another cable based higher up on the bank is used to sail back.

**July 8**—Richard Tenaza heads out of town to set shrew traps. The plan is to go beyond the cultivated areas into more natural vegetation. A difficult task at any time, but quite impossible today. Within a kilometer of town, we hit our second landslide. He manages to find some thick undergrowth on the edge of a corn crop, and



CHINA, cont. from pg. 12

hides his snares, baited with peanut butter.

As dusk descends, Joe Slowinski sets out to find a suitable frog stream: not too steep or narrow, and one that is easy to walk along. By the time he finds one, 10 kms from Gongshan, it is pouring rain. Something, in his business, you don't even notice—except that if it's raining too hard, even the frogs have gone for cover. Such was the case. He only caught one, caught out in the rain.

**July 9**—The botanists and entomologists—all told a party of 20 or so set out for the 16 km walk along the side of the Pula river to the forest preserve station at Qiqi (pronounced “chichi”). The luggage is carried by donkeys.

**July 10**—Qiqi. A forest station, deep in the Northern Gaoliganshan preserve. Twenty visitors overwhelm the

facilities. But there are enough bowls and chopsticks to go round. We are surrounded by thick forest. All three stories—the undergrowth, the shrubs, the canopy, plus tall Taiwania conifers that reach still higher—are

crowded and healthy (and wet). The botanists spend their days searching for flowering and fruiting plants and find enough to involve them each evening in long conferences where they come to a consensus on the species or genus in both languages and both independent nomenclatures.

The entomologists are generally more successful after dark—especially the spider guys. At night, while the fireflies dance in the trees, the headlamps of the three American and three Chinese entomologists light up the cliff faces, and the tree buttresses.

**July 19**—Pianma. Pianma is a logging town. At the lower elevations, the slopes lost their trees years ago. Today the logs come up the road from Burma on grinding, snorting trucks. These are tropical trees. Few show the rings of seasonal growth.

But the region does have its points, particularly if you're collecting snakes, and you

cont. on pg. 14



Professor Li Heung (right) confers with Dr. Bruce Bartholomew.



Ichthyologists catch fish in Gaoligong Shan.

## Morrison Planetarium

You have probably heard of Equinoxes and Solstices, but how about Cross Quarter Days? These are the days that lie between the changing of the seasons. In October, we still celebrate a Cross Quarter day by dressing up and trick-or-treat for Halloween. At this time of year, the Sun spends less and less time in our sky and our nights get longer. Every Saturday and Sunday at 4 pm, The Sky Tonight will show you lots of things to find in the sky during these long autumn nights. Remember, your Academy Members Passes admit you **free of charge!**

### Sky Shows

#### The Living Universe

Microfossils on Mars? Bacteria on the Moon? Find out how nature distributes and recycles the stuff of life throughout the cosmos and explore the fascinating ways that life endures on Earth...and possibly beyond!

October 1 - November 26

Weekdays: 2 pm Weekends: 2 & 3 pm

(This show continues as our second feature through June 2001)

#### Into the Depths of Night

Through November 26

Star clusters, extrasolar planets, nebulae, supernovae, galaxies... take a tour of the celestial sights visible in the Summer and Autumn skies. Discover how the far-flung wonders of the Universe connect to each other ... and to us!

October 1 - November 26

Weekends: 1 pm

#### Neighbors in Space

Ongoing

In this family show, the cosmic cartoon critter, Moon Mouse, leads an exploration of the Sun, Moon, and the planets of the solar system. Neighbors in Space is offered early in the day for the convenience of Members with younger children.

Weekends: 12 pm

#### The Sky Tonight

Ongoing

A relaxing tour of the current night sky, focusing on constellations, visible planets, the phase of the Moon, and upcoming celestial events visible with the unaided eye. This is our most free-form presentation, where the sky is the “star of the show”.

Weekends: 4 pm

**Weekend schedule applies on Friday, November 24.**

**Please note that the Planetarium will be closed on Thanksgiving Day, Thursday, November 23 and from Monday, November 27 – Thursday, November 30.**

**Schedules are subject to change. Additional shows will be added on the first Wednesday of each month, and for certain holidays. Please call 415-750-7141 for recorded information and schedules.**



## Order Form

**YOUR NAME:** \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Member # \_\_\_\_\_

Phone \_\_\_\_\_

**SPECIAL LECTURES**

	Qty/Members	Qty/Non-members	Total
The Quiet Revolution in Investing	___X\$10	___X\$10	=___
Eastwood Associates	___Free		=___

Poisons and Pollutants and Pesticides, Oh My!	___X\$6	___X\$10	=___
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Up to Our Necks in California Waters	___X\$6	___X\$10	=___
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Pandora's Picnic Basket	___X\$6	___X\$10	=___
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Plants and Your Health	___X\$8	___X\$10	=___
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The Peopling of the Pacific	___X\$6	___X\$10	=___
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**B. DEAN LECTURES**

	Qty/Members	Qty/Non-members	Total
Mining the Sky: New Astronomy with a Virtual Observatory	___X\$3	___X\$3	=___

Hyperspace, Time Machines, Wormholes, and the Theory of Everything	___X\$3	___X\$3	=___
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**FIELD TRIPS & WORKSHOPS**

	Qty/Members	Qty/Non-members	Total
Pottery-Making Technology in New Mexico	___X\$15	___X\$20	=___

Fall Botanical Foray on the Mendocino Coast	___X\$80	___X\$90	=___
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The Mouseion of Alexandria- The First Museum	___X\$15	___X\$20	=___
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Cone Peak Climb Adult	___X\$20	___X\$25	=___
Children	___X\$15	___X\$20	=___

**ACADEMY HALLOWEEN PARTY**

Venoms and Vipers and Vampires,  
Oh My!- It's Halloween

**Quantity**

\_\_\_X\$95/adult

**Total**

=\_\_\_

**DONATIONS**

☐ I would like to support the Academy of Sciences with a donation. \$ \_\_\_\_\_

☐ Please send me information about effective gift and personal planning in 2000.

☐ Please send me information about life income gifts and bequests to the Academy

☐ I have already provided for the Academy in my will or other estate plans.

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☐ Please send me your year-end tax-wise giving brochures.

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Mail payment and order form to: Membership Office, Ticket Services, California Academy of Sciences,  
Golden Gate Park, San Francisco, CA 94118-4599.

Include a self-addressed, stamped envelope for each series to which you subscribe.

No refunds/exchanges.

*ACADEMY EXPEDITION IN CHINA, cont. from pg. 13*

are tired of cobras, which do well in the shadow of humans. Our forays have produced five montane specimens so far, four different species. Though the mystery is that these species are supposed to live primarily on frogs, and we can find no frogs.

**July 25**—Liuku. We didn't leave here yesterday as planned. The Angry River is not finished with us. An enormous landslide between here and Fugong has now held up traffic for three days. Some of the Academy staff plane reservations are in jeopardy.

**July 26**—Kunming. The landslide finally released its victims. There was no time to overnight in Liuku. Just a late lunch and back on the road. An hour later we had our first breakdown. Three drivers poured over a steaming oily engine.

On the flight from Beijing to Kunming a month earlier it was clear that China is a mountainous country. Now that we had seven mountain ranges to cross in an underpowered, overheated bus it became all too apparent. Arduous mountain passes and several stops to tighten the oil filter and such, and we arrived at the Kunming restaurant where the Academy hosted a farewell dinner with five minutes to spare.

Meanwhile, the ichthyologists are still sampling Liuku's rivers, Slowinski finally has Dong Lin to photograph the colorful snakes he has captured, before going back into the field to find rare frogs. The mammalogists are still deep in the forests of Pianma.

*Keith Howell*



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# In Retrospect...

By Academy Archivist Michele Welck

## 100 Years Ago

November 1900 – “Professor A. C. Lawson, of the University of California, delivered an illustrated lecture, ‘On the Laramie Plateau.’”

In the Board of Trustees, an appropriation of \$150 was made to enable Dr. A. L. Kroeber, curator of anthropology, to join an expedition sent out by the American Museum of New York for the purpose of securing plaster casts of the heads and hands of Indians.”

“President Jordan announced his inability to be present at the meeting on account of an excursion to the Big Basin which he was to join, when the redwoods would be viewed with a view to a bill for their purchase to be brought before the [State] Legislature.”

*Dr. Kroeber was the Curator of Anthropology at the Academy from 1900-1913. For most of that time, he was primarily working for the University of California’s Museum of Anthropology. While he had wide-ranging interests in anthropology, he is perhaps best known for his work with California Native American ethnology and languages, including his work and friendship with Isbi, “The Last of the Yahi.”*

## 50 Years Ago

October 1950 – “Miss [Alice] Eastwood’s election this year as Honorary President of the International Botanical Congress which met in July in Stockholm, was an event that brought great honor to the California Academy of Sciences and, we are sure, the highest satisfaction to her, our Curator Emeritus

of the Department of Botany.

Miss Eastwood returned not long ago from the two months’ trip by air, land, and sea which took her to Sweden, and home again by way of the Panama Canal. Since her return to San Francisco and the Academy, Miss Eastwood has continued with renewed vigor a program of keeping up with a dozen special projects, the weekly meetings of the California Botanical Club which has met at the Academy for something over fifty years, the American Fuchsia Society, of which she is honorary president, and a goodly number of garden clubs that look to her constantly for programs and many other kinds of help and advice.”

*Alice Eastwood was the Academy’s Curator of Botany from 1892-1949. In addition to the recognition she received in Stockholm, she was also honored with the Academy’s Alice Eastwood Hall of Botany (now containing the Gary Larson exhibit) and the “Alice Eastwood Camp” in Muir Woods.*



PHOTO: SPECIAL COLLECTIONS/CAS LIBRARY

Alice Eastwood in Sweden for the 7th International Botanical Congress. This photo may be from her thrilling visit to the home of Carl Linnaeus, the founder of modern scientific nomenclature, where she was permitted to sit in the chair of the great naturalist.

## Outstanding Volunteer: Dominic Alioto

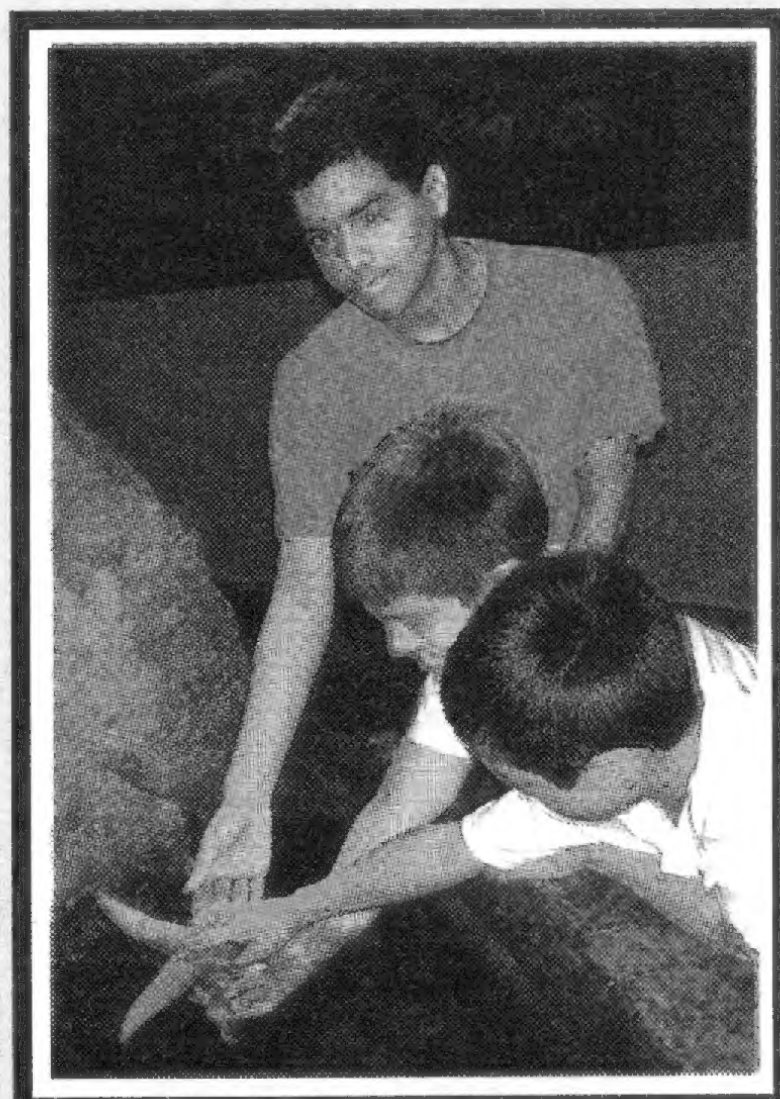


PHOTO: DONG LIN

Dominic Alioto

Even before his parents first asked him if he would like to take classes at the California Academy of Sciences, 8-year old Dominic Alioto knew what he wanted. He wanted to know about “critters with teeth.” And that meant sharks, dinosaurs and dragons (before he knew dragons weren’t real). He chose the Shark class where he learned how to tell the difference between males and females, where he got to roam through the collections with the scientists and of course, where he saw lots of teeth.

Dominic regularly took Junior Academy classes until he was “too old” and started inquiring about the “next best thing to do.” When he was 16 he became a Tidepool volunteer ably talking to Academy visitors in English and Spanish about invertebrates and biodiversity. Dominic approached his volunteer work with the attitude that “we’re going to have fun today,” and he did.

Just this year Dominic has become a paid Intern with the Careers in Science program where he is able to “explore and explain” the natural world to Academy visitors on a broader scale. You’ll still see Dominic at the Tidepool, but you’ll also see him in the Venoms exhibit, and staffing roving specimen carts. Behind the scenes, Dominic is learning the processes and findings of the natural sciences and assisting with scientific research. One thing is certain, Dominic will always cherish the natural world and his part in its preservation.

Tidepool volunteers are always needed on weekdays. Call 750-7154 if you’re interested. If you’re interested in the Intern Program call 750-7366 for more information.



## October

### 1 Sunday

Venoms ER (p. 7)

### 3 Tuesday

Snake Mimicry (p. 7)

### 4 Wednesday

Dangerous Liaisons (p. 6)  
Fall Botanical Foray on the  
Mendocino Coast (p. 9)

### 5 Thursday

Color Me Deadly (p. 6)  
Pandora's Picnic Basket: The  
Potential and Hazards of  
Genetically Modified Foods  
(p. 8)

### 6 Friday

Wasps and Bees (p. 7)

### 7 Saturday

At Home in Vanuatu: Tradition  
in the Western Pacific  
OPENS (p. 4)  
Tarantulas: Beauty or Beast?  
(p. 6)  
Traditional Irish Dance (p. 7)  
Pottery-Making Technology in  
New Mexico (p. 9)

### 8 Sunday

Venoms ER (p. 7)

### 9 Monday

Venoms ER (p. 7)

### 10 Tuesday

Snake Mimicry (p. 7)

### 11 Wednesday

Venomous Slugs of Costa  
Rica's Pacific Ocean (p. 3)  
Black Widows To Go (p. 7)

### 13 Friday

Wasps and Bees (p. 7)

### 14 Saturday

Tarantulas: Beauty or Beast?  
(p. 6)

### 15 Sunday

Venoms ER (p. 7)

### 17 Tuesday

Snake Mimicry (p. 7)  
Mining the Sky: New  
Astronomy with a Virtual  
Observatory (p. 10)

### 18 Wednesday

Dangerous Liaisons (p. 6)  
Plants and Your Health (p. 8)

### 19 Thursday

Poisons and Pollutants and  
Pesticides, Oh My! (p. 8)

### 20 Friday

Wasps and Bees (p. 7)

### 21 Saturday

Tarantulas: Beauty or Beast?  
(p. 6)  
Regional Dances from Chile  
(p. 7)

### 22 Sunday

Venoms ER (p. 7)

### 24 Tuesday

Snake Mimicry (p. 7)

### 26 Thursday

The Peopling of the Pacific (p. 8)

### 27 Friday

Wasps and Bees (p. 7)  
Halloween Party (p. 5)

### 28 Saturday

Rattlesnakes Alive! (p. 7)

### 29 Sunday

Venoms ER (p. 7)

### 31 Tuesday

Snake Mimicry (p. 7)

## November

### 1 Wednesday

Dangerous Liaisons (p. 6)

### 3 Friday

Pueblo Pottery (p. 6)  
Wasps and Bees (p. 7)

### 4 Saturday

Pueblo Pottery (p. 6)  
Venoms ER (p. 7)

CHANGE SERVICE REQUESTED

### 5 Sunday

Pueblo Pottery (p. 6)  
Tarantulas: Beauty or Beast? (p. 6)  
Meet the Artists (p. 6)  
Rural Traditions: A Day of the  
Dead CLOSES

### 7 Tuesday

Snake Mimicry (p. 7)  
Hyperspace, Time Machines,  
Wormholes, and the Theory  
of Everything (p. 10)

### 8 Wednesday

Clitso Dedman, Forgotten  
Navajo Woodcarver (p. 3)

### 10 Friday

Wasps and Bees (p. 7)

### 11 Saturday

Between the Worlds: A Post  
Halloween Concert (p. 7)  
Venoms ER (p. 7)

### 12 Sunday

Tarantulas: Beauty or Beast? (p. 6)

### 14 Tuesday

Snake Mimicry (p. 7)

### 15 Wednesday

Up to Our Necks in California  
Waters (p. 8)  
Dangerous Liaisons (p. 6)

### 17 Friday

Wasps and Bees (p. 7)

### 18 Saturday

Ouch! Bites and Stings (p. 7)  
Folk Music from Northern China  
(p. 7)

### 19 Sunday

Rattlesnakes Alive! (p. 7)  
Cone Peak Climb (p. 9)

### 21 Tuesday

Snake Mimicry (p. 7)  
The Mouseion of Alexandria—  
The First Museum (p. 9)

### 24 Friday

California Basketry (p. 6)  
Fauna of America: A Heritage  
to its People (p. 6)  
Wasps and Bees (p. 7)

### 25 Saturday

California Basketry (p. 6)  
Venoms ER (p. 7)

### 26 Sunday

Run to the Far Side (p. 11)  
California Basketry (p. 6)  
Tarantulas: Beauty or Beast? (p. 6)

### 28 Tuesday

Snake Mimicry (p. 7)

## MEMBER INFORMATION

Guided Tours:

Free one-hour highlight tours daily  
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Winter hours (Labor Day weekend to  
Memorial Day) 10 am–5 pm

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